

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH ADMINISTRATION  
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE  
DOMESTIC QUARANTINE NOTICES

AMENDMENT OF ADMINISTRATIVE INSTRUCTIONS AUTHORIZING ETHYLENE  
DIBROMIDE FUMIGATION AS A CONDITION FOR CERTIFICATION OF MANGOES  
UNDER PUERTO RICAN FRUIT AND VEGETABLE QUARANTINE NO. 58

Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by §§ 301.58-2 and 301.58-3 of the regulations supplemental to Puerto Rican Fruit and Vegetable Quarantine No. 58 (7 CFR 301.58-2 and 301.58-3), issued under section 8 of the Plant Quarantine Act of 1912, as amended (7 U. S. C. 161), paragraph (b) (1) of administrative instructions appearing as § 301.58-3d in Title 7, Code of Federal Regulations, effective October 1, 1951, is hereby amended to read as follows:

§ 301.58-3d Administrative instructions authorizing the movement of mangoes from Puerto Rico after approved fumigation.

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(b) Approved treatment. (1) The approved treatment shall consist of fumigation with ethylene dibromide in an atmospheric fumigation vault, which vault and its equipment have been approved for that purpose by the Bureau of Entomology and Plant Quarantine. The dosage shall be applied at the following rates:

6 ounces of ethylene dibromide per 1,000 cubic feet of space  
for 2 hours at 80° F.

8 ounces of ethylene dibromide per 1,000 cubic feet of space  
for 2 hours at 70° F.

Cubic feet of space shall include the load. The 2-hour period of exposure shall begin when all of the fumigant has been introduced into the chamber. The required temperatures apply to both air and fruit. The ethylene dibromide must be applied in the liquid state and volatilized within the sealed fumigation chamber by direct contact with a highly heated metal surface over an electric hot plate or other suitable heating medium. The gas shall be circulated within the chamber continuously for the 2-hour period by an electric fan or blower.

(Sec. 8, 37 Stat. 318, amended, 7 U. S. C. 161)

This amendment shall be effective March 18, 1953.

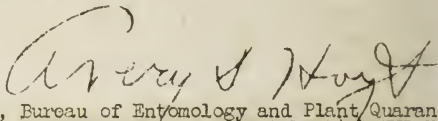
The purpose of this amendment is to revise the dosage schedules authorized for the fumigation of mangoes as a requirement for certification prior to their interstate movement from Puerto Rico. The present dosage schedule for atmospheric fumigation is prescribed for temperatures 50° F. or above. This amendment involves no essential change in actual fumigation procedures, since temperatures



of 80° F. or above normally prevail during the mango harvesting season in Puerto Rico. The 80° dosage schedule in the amended instructions parallels the 50° schedule in the present instructions. The amended instructions will also be consistent with the latest experimental data and with the 70° schedule for ethylene dibromide fumigation in Hawaii of certain fruits and vegetables prescribed in 7 CFR 301.13-4b (B. E. P. Q. 592, effective February 18, 1953; 18 F.R. 947). Accordingly, it is found for good cause that notice and public procedure under the Administrative Procedure Act are unnecessary and contrary to the public interest, and good cause is found for making the effective date hereof less than 30 days after its publication in the Federal Register.

Done at Washington, D. C., this 5th day of March, 1953.

[SEAL]

  
Chief, Bureau of Entomology and Plant Quarantine